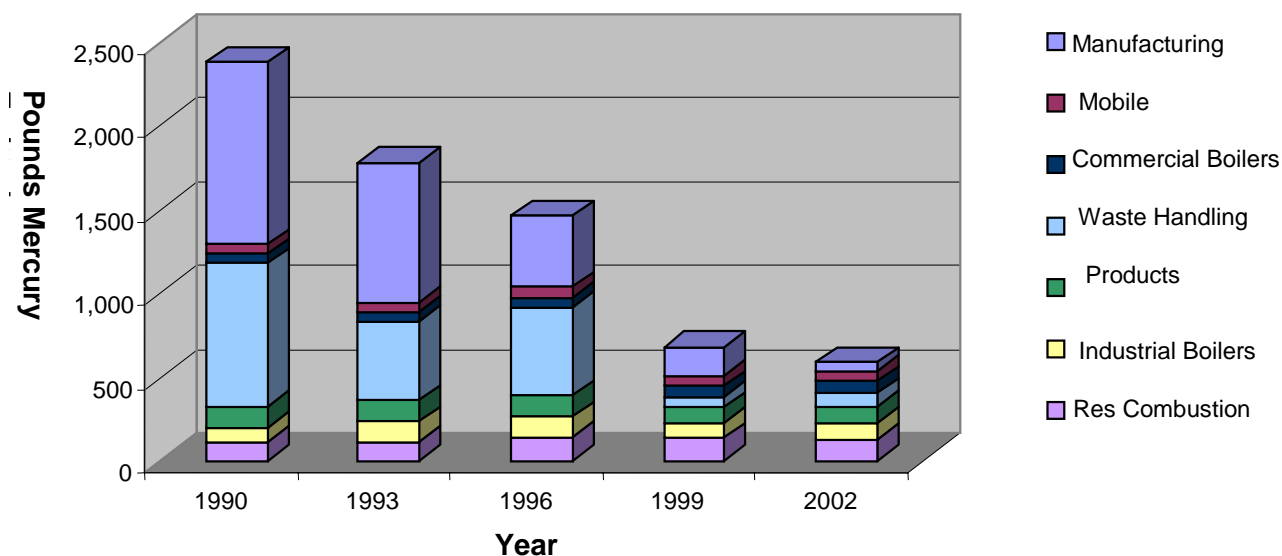


# Maine Mercury Sources and Amounts

Exhibit A: **Mercury Emissions (in pounds) 1990-2002 by Sector**

| SECTOR                 | 1990  | 1993  | 1996  | 1999 | 2002 |
|------------------------|-------|-------|-------|------|------|
| Residential Combustion | 115   | 117   | 143   | 137  | 128  |
| Industrial Boilers     | 83    | 119   | 118   | 88   | 98   |
| Products               | 125   | 126   | 128   | 93   | 95   |
| Waste Handling         | 855   | 471   | 534   | 67   | 85   |
| Commercial Boilers     | 58    | 59    | 56    | 60   | 68   |
| Mobile                 | 55    | 55    | 58    | 63   | 67   |
| Manufacturing          | 1,086 | 829   | 426   | 177  | 46   |
| Grand Total            | 2,376 | 1,777 | 1,462 | 684  | 588  |



Sector information above can be viewed in several ways. 1. Residential combustion is the largest sector source of mercury emissions. 2. Combustion (residential, industrial, commercial and waste handling,) is the largest source of mercury emissions 3. Non-residential combustion sources (industrial and commercial) are the largest source of mercury emissions.

Exhibit B: **Mercury Product Sources From One Time Collection and Ongoing Recycling**

|   |                   |
|---|-------------------|
| Button cells made in the U.S. per year              | 25lbs.            |
| Dairy Manometers                                    | 26 lbs.           |
| 17,000 auto switches                                | 35 lbs.           |
| Schools   | @700 lbs. to date |
| 850,000 lamps, 26,000 thermostats and other devices | @1,100 lbs.       |

Exhibit C: **Mercury Discharges by Wastewater Treatment Facilities for 2002**

|   |            |
|---|------------|
| Aggregate from 157 municipal & industrial water discharge sources | 6 /lbs./yr |
|---|------------|

Exhibit D: **Mercury in Water Discharge from Holtra Chem**

|             |                                       |   |   |
|-------------|---------------------------------------|---|---|
|             | 1990-2000<br>Holtra Chem in operation | 2001-2004<br>production ceases in Sept 2001 discharges remain | 2005 and beyond<br>with installed treatment |
| Holtra Chem | 12 lbs./yr                            | 3lbs/yr   | 1.6 lbs./yr                                 |

MEDEP 1.27.05 \* Mercury Emissions are calculated using emission factors that indicate the amount of mercury released for each fuel type and source. Emissions factors vary significantly. The emissions information contained here represents a mix of national emissions factors applied to Maine data and emissions factors that have been researched specifically for Maine. The amount of fuels consumed by various sectors is questionable. This creates uncertainty in the inventory.